

## Tessellation 16

Suite: Tessellation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 1.540

55 + 15 girdles = 70 facets

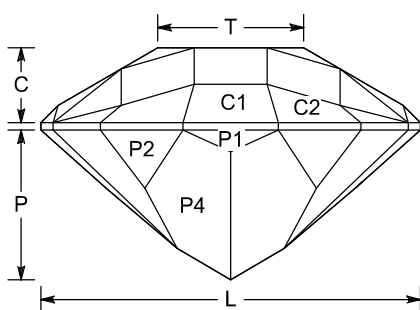
3-fold, mirror-image symmetry

96 index

L/W = 1.039 T/W = 0.399 U/W = 0.346

P/W = 0.409 C/W = 0.205

Vol./W<sup>3</sup> = 0.217



## PAVILION

P1	46.47°	96-32-64	Cut to centerpoint.
P2	45.38°	03-29-35-61-67-93	Meet at culet.
P3	41.00°	11-21-43-53-75-85	Meet at culet.
G1	90.00°	96-32-64	Set stone size.
G2	90.00°	03-29-35-61-67-93	Level girdle.
G3	90.00°	11-21-43-53-75-85	Level girdle.
P4	42.50°	01-31-33-63-65-95	Meet P1, P2, G1, G2

## CROWN

C1	57.77°	96-32-64	Set girdle width.
C2	55.95°	03-29-35-61-67-93	Level girdle.
C3	41.32°	11-21-43-53-75-85	Level girdle.
C4	35.27°	12-20-44-52-76-84	Meet G3, C3
C5	30.00°	08-24-40-56-72-88	Meet C2, C3, C4
C6	26.57°	96-32-64	Meet C1, C2, C5
C7	18.44°	16-48-80	Meet C4, C5
T	0.00°	Table	Meet C5, C6, C7

This is a surprisingly shallow, ridiculously well-performing trillion. The design has a small bit of pavilion waste due to the meetpoint establishment of the girdle and the overriding P4 facets, which works great if you have inclusions near where your pavilion would be. I prefer this slightly darker almandine garnets, but it looks great in EVERYTHING, regardless of RI, and can be cut from quartz to rutile (RI = 1.54 - 2.62) with no changes.

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